



Symbiosis 2025



Invited Lecture Talks by Honorary Delegates:



Prof. Kalobaran Maiti
Director IACS Kolkata



Prof. Pradyut Ghosh
IACS Kolkata



Prof. Vivek Polshettiwar
TIFR, Mumbai



Prof. Arindam Banerjee
IACS Kolkata



Dr. Urmimala Maitra
IACS Kolkata

Panel Discussion : Latest Trends in Chemical Research by Editors in IACS



Prof. Amitava Patra
IACS Kolkata



Prof. Asim Bhaumik
IACS Kolkata



Prof. Tapan Kanti Paine
IACS Kolkata

Session With The Brilliant Sunrisers



Dr. Santanu Bhattacharya
IISER BERAMPORE



Dr. Lisa Roy
IIT Kharagpur



Dr. Saikat Mukherjee
Nicolaus Copernicus
University



Mr. Swagato Saha
University College London



Mrs. Shramana Guha
IACS, Kolkata



Ms. Saily Sriwastav
IACS, Kolkata



Ms. Afreen Zaman
IACS, Kolkata



Mrs. Swomi Basu
IACS, Kolkata

Honourable Session Chairs



Prof. Amlan J. Pal
IACS Kolkata



Prof. Satrajit Adhikari
IACS Kolkata



Prof. Prasanta Kumar Das
IACS Kolkata



Prof. Tarun Kumar Mondal
IACS, Kolkata



Prof. Narayan Pradhan
IACS Kolkata



Prof. Sudip Malik
IACS Kolkata



Dr. Nabanita Deb
IACS, Kolkata



Dr. Deeksha Gupta
ACS International



Dr. Krishna Raghav
Chaturvedi
ACS International

Symbiosis 2025: Environmental Science, Remediation & Sustainability

- **Event Schedule:**
- **Inaugural Address by Prof. Kalobaran Maiti, Director, IACS**
- **Invited Lecture by Prof. Pradyut Ghosh**
- **Invited lecture by Prof. Vivek Polshettiwar**
- **Invited Lecture by Dr. Urmimala Maitra**
- **Invited Lecture by Prof. Arindam Banerjee**
- **Student's Flash Talks**
- **Panel Discussion by Editors in IACS : Latest Trends in Chemical Research**
- **The Bright Sunriser: Invited Lecture by Distinguished Alumni of IACS**
- **Vote of Thanks by Prof. Ayan Datta, Mentor, IACS ACS STUDENT CHAPTER**
- **Felicitation Ceremony & Conclusion**

Student's
Flash Talks



Ms. Iri Ghosh
IACS, Kolkata



Mr. Sourav Mukherjee
IACS, Kolkata

Date : 19th June 2025; Time: 1.30 pm Onwards
Venue: C. V. Raman Hall, IACS, Kolkata



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ACS-IACS
International Student Chapter



Symbiosis 2025



Environmental Science: Remediation and Sustainability

Date: 19th June 2025 **Venue:** C.V. Raman Hall, IACS, Kolkata (Hybrid Mode)
Time: 1:30 PM onwards

Online Meeting Link: [Zoom](#); **Meeting ID:** 977 0498 3459; **Passcode:** 122029

Join Zoom Meeting

<https://zoom.us/j/97704983459>

Meeting ID: 977 0498 3459

Passcode: 122029

Sl.No.	Event Name	Time	Brief Info
1.	Welcome Note by President ACS IACS Student Chapter		Welcome and Introduction to the Session Chair and event coordinators
Session Chair: Prof. Amlan J. Pal (SPS, IACS)			
2.	Inaugural Address by Director of IACS	1.30 – 1.40 pm	Address from the Director of IACS
3.	Invited Talk by Prof. Pradyut Ghosh, SCS, IACS	1.40 – 2.10 pm	Theme: Supramolecular Chemistry of Environmentally Relevant Anions
4.	Invited Talk by Prof. Vivek Polshettiwar, TIFR Mumbai	2.10 – 2.40 pm	Theme: Light, Electrons And Reactions
5.	TEA BREAK & Group Photo Session	2.40 – 3.00 pm	
Session Chair: Dr. Nabanita Deb (SCS, IACS)			
6.	Invited Talk by Dr. Urmimla Maitra, SMS, IACS	3.00 – 3.30 pm	Theme: Fe-Mn based Na-ion cathodes as sustainable alternative for current Li-ion technology
7.	Invited Talk by Prof. Arindam Banerjee, SBS, IACS	3.30 – 4.00 pm	Theme: Self-assembling peptides for sustainable development
Session Chairs: Prof. Prasanta Kumar Das (SBS, IACS) and Prof. Narayan Pradhan (SMS, IACS)			
8.	Student Flash Talks 4.00 – 5.00 pm		
	Ms. Saily Sriwastav, SAIS, IACS	4.00 – 4.10 pm	Theme: Northiosquaraine-Based Nanoparticles for Red-Light-Induced Photodynamic Therapy via Singlet Oxygen Generation
	Ms. Shramana Guha, SAIS, IACS	4.10 – 4.20 pm	Theme: Stereochemically Active Lone Pair Leads to Birefringence in the Vacancy Ordered Cs ₃ Sb ₂ Cl ₉ Perovskite Single Crystals
	Mr. Sourav Mukherjee, SPS, IACS	4.20 – 4.30 pm	Theme: Impact of Electric Polarization on Solar Cell Performances

Sl.No.	Event Name	Time	Brief Info
	Ms. Afreen Zaman, SBS, IACS	4.30 – 4.40 pm	Theme: DON encapsulated carbon dot-vesicle nano-conjugate for lung cancer therapy via combined targeting of CD44 and SLC1A5
	Ms. Iti Ghosh, SCS, IACS	4.40 – 4.50 pm	Theme: A Potent Bis-Heteroleptic Ruthenium(II) Complex-based ChB Receptor for Selective Sensing of Phosphates
	Ms. Swomi Basu, SCS, IACS	4.50 – 5.00 pm	Theme: Nucleoside-Based Hydrogels as Green Multifunctional Materials for Antimicrobial Action and Sustainable Wastewater Remediation
Session Chairs: Dr. Krishna R. Chaturvedi (ACS International), Prof. Tarun Kumar Mondal (SCS, IACS) & Dr. Deeksha Gupta (ACS International)			
9.	Panel Discussion by – ➤ Prof. Amitava Patra, IACS [Senior Editor, JPCL] ➤ Prof. Asim Bhattacharya, IACS [Associate Editor, Green Chemistry] ➤ Prof. Tapan Kanti Paine, IACS [Editor, Inorganic Chemistry Communications] ➤ Prof. Ayan Datta, IACS [Associate Editor, ACS Applied Energy Material]	5.00 – 6.00 pm	Theme: Recent Trends in Chemical Research
10.	TEA BREAK & Snacks Session	6.00 – 6.15 pm	
Session Chairs: Prof. Satrajit Adhikari (SCS, IACS) and Prof. Sudip Malik (SAIS, IACS),			
11.	The Brilliant Sunrisers		
	Dr. Santanu Bhattacharya, IISER Berampore	6.15 – 6.35 pm	Theme: Key factors of carbon and sulfur based molecular materials for photocatalytic solar energy conversions to solar fuels and value added chemicals
	Dr. Saikat Mukherjee, Nicolaus Copernicus University	6.35 – 6.55 pm	Theme: Molecular Photodynamics Simulation in Long Timescale
	Mr. Swagato Saha, University College London	6.55 – 7.15 pm	Theme: Sustainable Theory: Between Hardware & Software
	Dr. Lisa Roy, IIT Kharagpur	7.15 – 7.35 pm	Theme: Theoretical Investigation of Water-Splitting using Homogeneous Transition Metal Complexes
12.	Vote of thanks by Prof. Ayan Datta, ACS IACS Students Chapter	7:35 – 7:45pm	Concluding Remarks by Mentor of ACS IACS Student Chapter and future plans